TABLE 8

FLARE SYSTEMS

Number from Flow Diagram	Manufacturer & Model No. (if available)

CHARACTERISTICS OF INPUT

Waste Gas Stream	Material	Min. Value Expected (scfm [68°F,14.7 psia])	Ave. Value Expected (scfm [68°F, 14.7 psia])	Design Max. (scfm [68°F, 14.7 psia])
	1.			
	2.			
	3.			
	4.			
	5.			
	6.			
	7.			
	8.			
% of time this condition occurs				

	Flow Rate (scfm [68°F, 14.7 psia])		Temp. °F	Pressure (psig)
	Minimum Expected	Design Maximum		
Waste Gas Stream				
Fuel Added to Gas Steam				

	Number of Pilots	Type Fuel	Fuel Flow Rate (scfm [70°F & 14.7 psia]) per pilot

For Stream Injection	Stream Pressure (psig)		Total Stream Flow	Temp. °F	Velocity (ft/sec)
	Min. Expected	Design Max.	Rate (lb/hr)		
	Number of Jet Streams	Diameter of Steam Jets (inches)		Design basis for steam injected (lb steam/lb hydrocarbon)	

For Water Injection	Water Pressure (psig) Min.Expected	Design Max.	Total Water Flow Rate (gpm) Min. Expected	Design Max.	No. of Water Jets	Diameter of Water Jets (inches)

Flare Height (ft)	Flare tip inside diameter (ft)

Capital Installed Cost $_____ Annual Operating Cost $_____

Supply an assembly drawing, dimensioned and to scale, to show clearly the operation of the flare system. Show interior dimensions and features of the equipment necessary to calculate its performance. Also describe the type of ignition system and its method of operation. Provide an explanation of the control system for steam flow rate and other operating variables.